Area of a Circle

A circular bucket has a radius of 6 in. Find the area of the bottom of the bucket. The formula for finding the area of a circle is $A = \pi r^2$.

One Way	Another Way
Use 3.14 for π .	Use $\frac{22}{7}$ for π .
$A = \pi r^2$	$A = \pi r^2$
= 3.14 $ imes$ 6 ²	$=\frac{22}{7} \times 6^2$
= 3.14 × 36	$=\frac{22}{7} \times 36$
= 113.04 in ²	$=\frac{22}{7} imesrac{36}{1}$
	$=\frac{792}{7}$
	= 113.14 in ²

With a Calculator



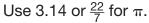
Reteaching

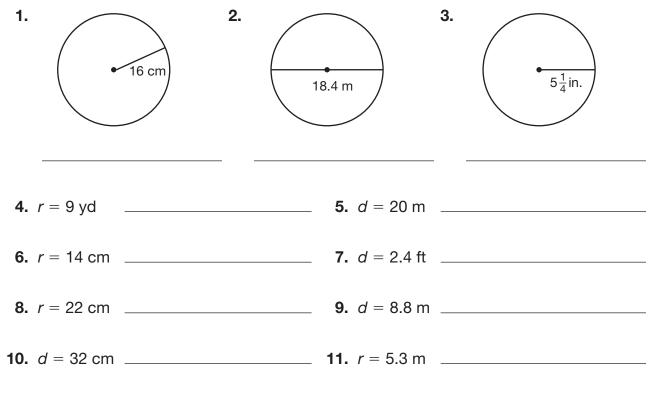
17-5

Display:	113.09734	
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The bucket's area is about 113 in².

Find the area of each circle to the nearest whole number.





12. Reasoning If the circumference of a circle is 18π , what is the area of the circle?